UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

FEBRUARY 1968

PART II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
FEBRUARY 1968

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Ships Martinac

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 9000 observations. Squares show temperatures at weather ship stations. Numerals on shore are temperatures at coastal and lightship stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term charts of H.O. 225. Hatched areas are colder in 1968.

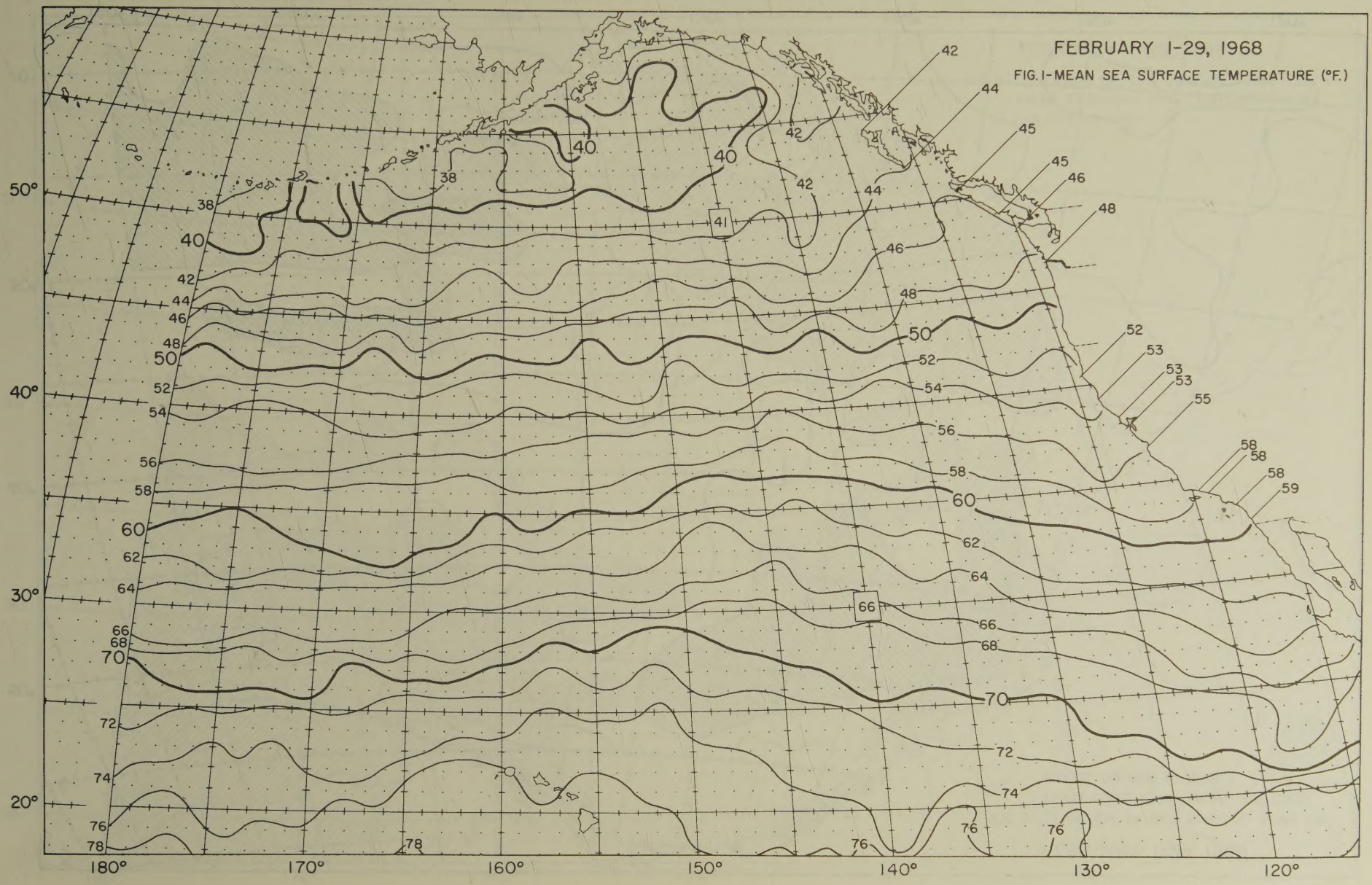
Figure 3.--Deviation of sea surface temperatures (°F) from those of February 1967. Hatched areas are colder in 1968.

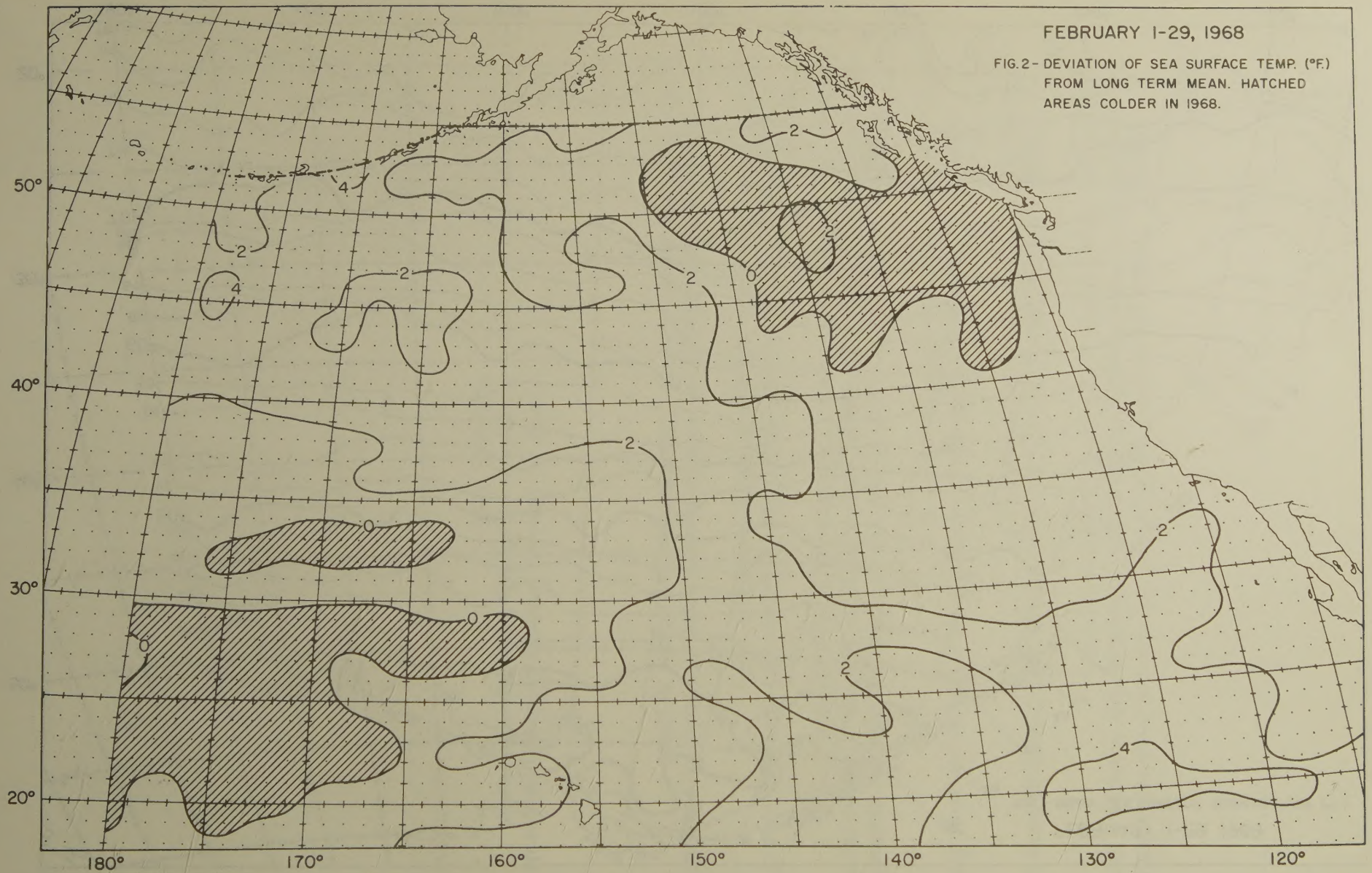
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 3000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

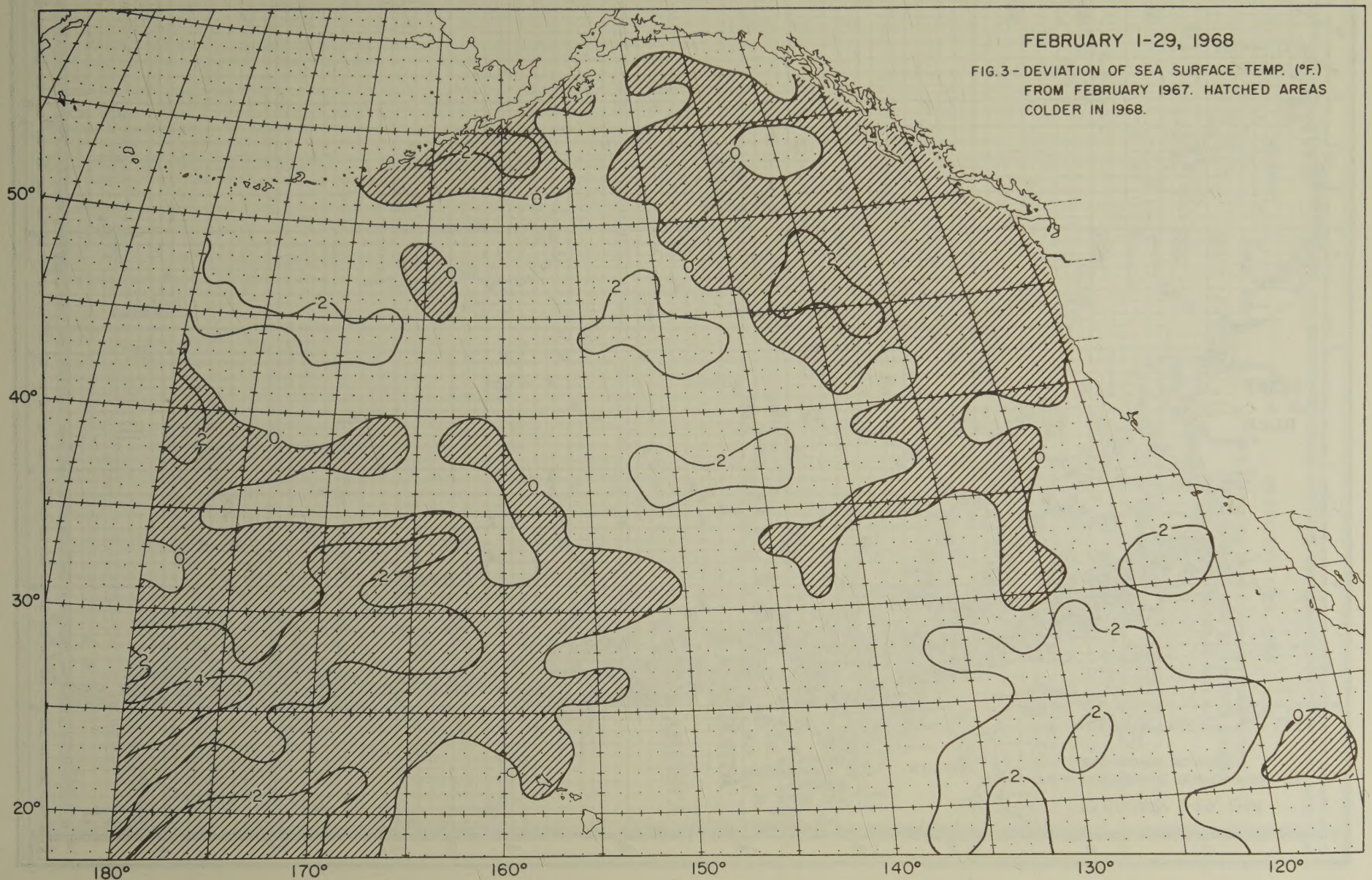
Figure 5.--Deviation of sea surface temperatures (°F) February 1968-February 1967 by 1-degree squares. Shaded areas are colder in 1968.

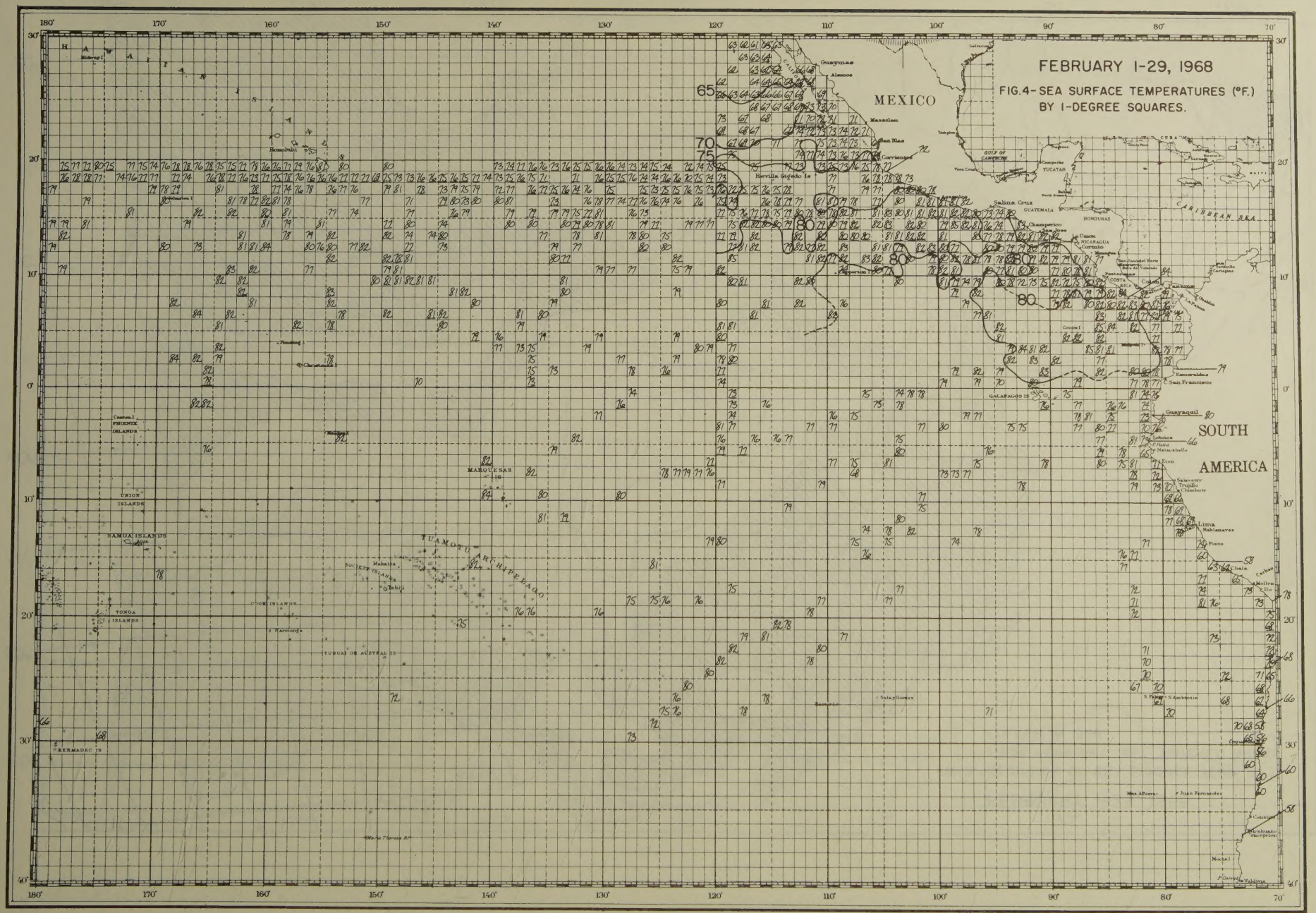
Figure 6.--Deviation of sea surface temperatures (°F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas are colder in 1968.

James A. Renner, Fishery Biologist (General)
Kenneth S. Raymond, Scientific Illustrator
March 7, 1968


FEBRUARY 1-29, 1968
FIG. 1-MEAN SEA SURFACE TEMPERATURE (°F.)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
41
66


FEBRUARY 1-29, 1968
FIG. 2 - DEVIATION OF SEA SURFACE TEMP. (°F.) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1968.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
0
2
4


FEBRUARY 1-29, 1968
FIG. 3 - DEVIATION OF SEA SURFACE TEMP. (°F.) FROM FEBRUARY 1967. HATCHED AREAS COLDER IN 1968.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
0
2
4


FEBRUARY 1-29, 1968
FIG.4-SEA SURFACE TEMPERATURES (°F.)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
CARIBBEAN SEA
GUATEMALA
HONDURAS
COSTA RICA
PANAMA
GALAPAGOS IS.
TUAMOTU ARCHIPELAGO
SOCIETY ISLANDS
COOK ISLANDS
TONGA ISLANDS
SAMOA ISLANDS
UNION ISLANDS
PHOENIX ISLANDS
MARQUESAS
KERMADEC IS.
TUBUAI OR AUSTRAL IS.
Guaymas
Mazatlan
San Blas
Manzanillo
Salina Cruz
Champerico
Corinto
Puntarenas
Esmeraldas
San Francisco
Guayaquil
Salaverry
Trujillo
Chimbote
Lima
Pisco
Arica
Juan Fernandez
Honolulu
Tahiti
Nukuhiva
Makatea
Papeete
Pago Pago
Suva
Nandi
Nouméa
Auckland
Wellington
Christchurch
Dunedin
Hobart
Melbourne
Sydney
Brisbane
Townsville
Darwin
Perth
Albany
Esperance
Adelaide
Port Lincoln
Port Augusta
Port Pirie
Port Adelaide
Victor Harbour
Portland
Warrnambool
Geelong
Port Phillip Bay
Port Welshpool
Port Albert
Lakes Entrance
Eden
Jervis Bay
Port Hacking
Botany Bay
Port Jackson
Newcastle
Port Stephens
Coffs Harbour
Yamba
Lismore
Mooloolaba
Brisbane
Gladstone
Rockhampton
Mackay
Townsville
Cairns
Thursday I.
Horn I.
Booby I.
Murray I.
Darnley I.
Saibai I.
Daru
Port Moresby
Samarai
Rabaul
Kavieng
Manus I.
Truk
Yap
Guam
Palau Is.
Koror
Ponape
Kusaie
Majuro
Jaluit
Ocean I.
Nauru I.
Tarawa
Funafuti
Suva
Levuka
Lautoka
Nandi
Rotuma
Apia
Pago Pago
Rarotonga
Aitutaki
Penrhyn I.
Manihiki
Rakahanga
Pukapuka
Nassau I.
Suwarrow I.
Palmerston I.
Niue I.
Vavau
Nukualofa
Eua I.
Tongatabu
Fakaofo
Nukunonu
Atafu
Funafuti
Nanumea
Nanumanga
Niutao
Nukufetau
Nukulaelae
Vaitupu
Nui
Nanumea
Nanumanga
Niutao
Funafuti
Nukufetau
Nukulaelae
Vaitupu
Nui
Apia
Pago Pago
Rarotonga
Aitutaki
Penrhyn I.
Manihiki
Rakahanga
Pukapuka
Nassau I.
Suwarrow I.
Palmerston I.
Niue I.
Vavau
Nukualofa
Eua I.
Tongatabu
Fakaofo
Nukunonu
Atafu

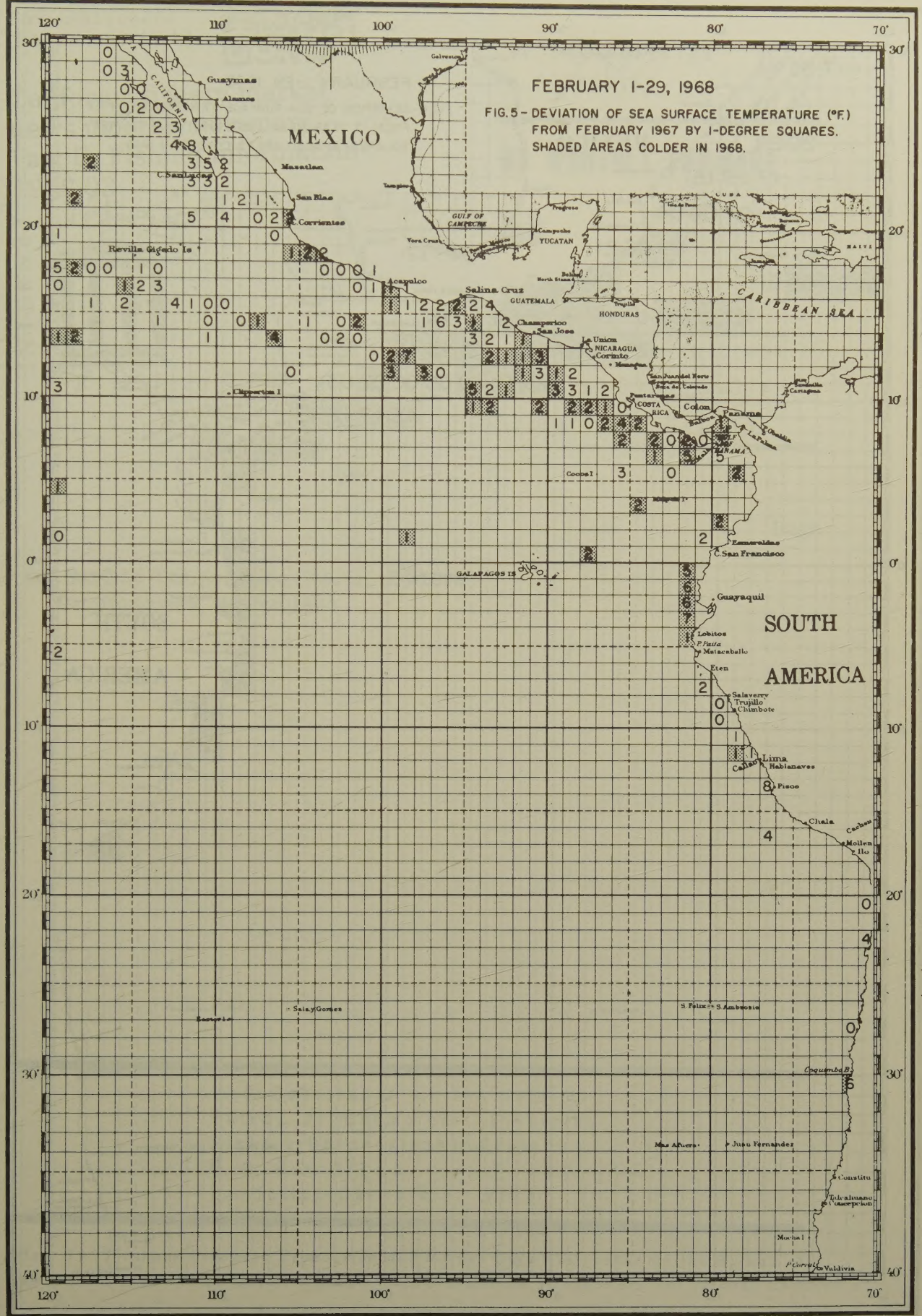

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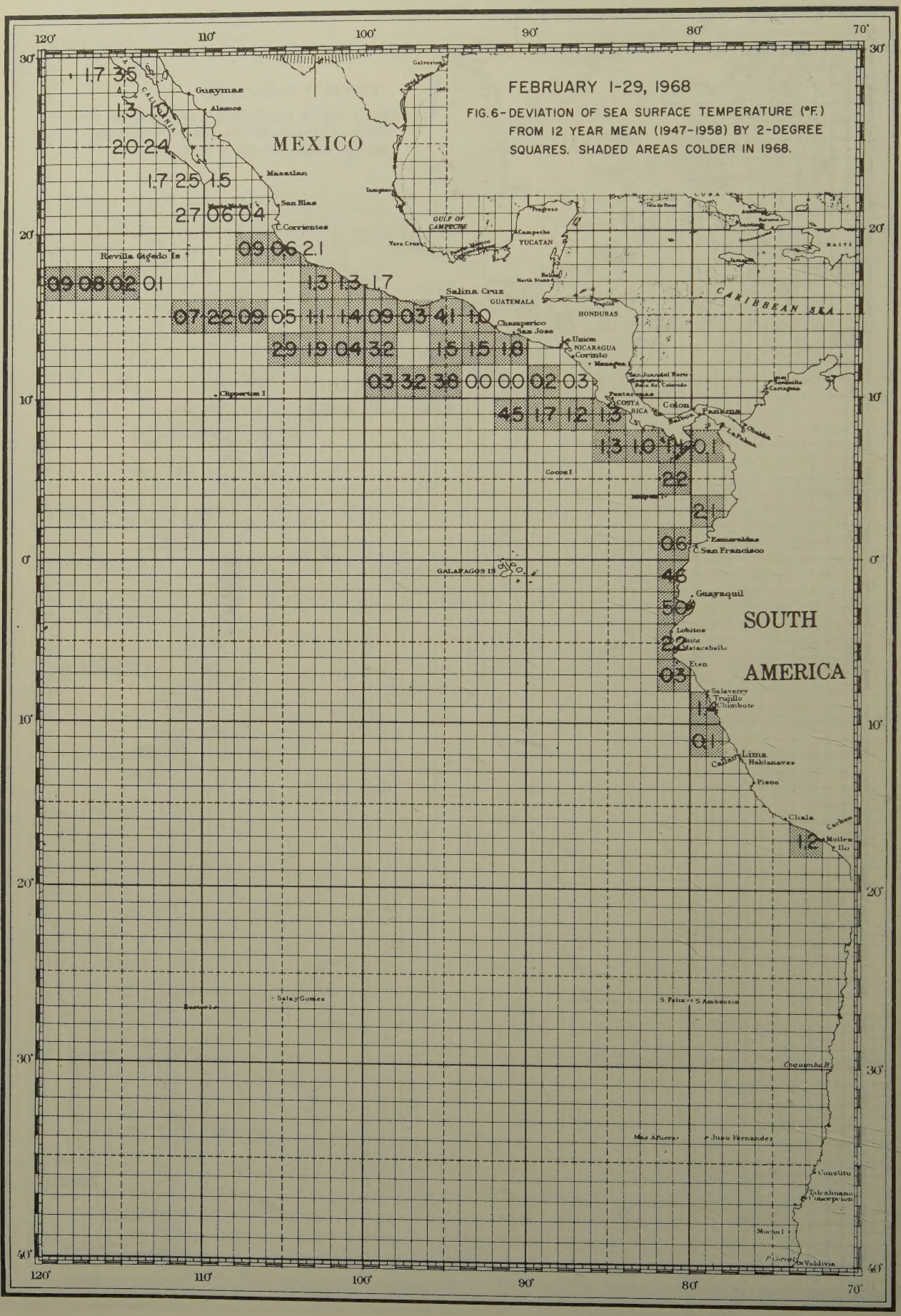
FIG. 5 - DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM FEBRUARY 1967 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1968.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
PANAMA
CUBA
YUCATAN
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Acapulco
Salina Cruz
Champerico
San Jose
Colon
Cocos I
Esmeraldas
San Francisco
Guayaquil
Lobitos
Eten
Salaverry
Trujillo
Chimbote
Lima
Pisco
Chala
Mollendo
Coquimbo
Juan Fernandez
Valdivia
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°


FEBRUARY 1-29, 1968
FIG. 6 - DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM 12 YEAR MEAN (1947-1958) BY 2-DEGREE SQUARES. SHADED AREAS COLDER IN 1968.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
GALAPAGOS IS
Guaymas
Alamos
Masatlan
San Blas
C. Corrientes
Revilla Gigedo Is
Salina Cruz
GUATEMALA
HONDURAS
Champerico
San Jose
Le Union
NICARAGUA
Cormito
Managua
COSTA RICA
Puntarenas
Colon
Panama
Cocos I
Chipperton I
Esmeraldas
C. San Francisco
Guayaquil
Lobitos
Talara
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablanaves
Pisco
Chala
Cachau
Mollendo
Ilo
Salas y Gomez
S. Felix
S. Ambrosia
Juan Fernandez
Mas A Fuera
Constitu
Talcahuano
Concepcion
Mocha I
Valdivia
1.7 3.5
1.3 1.0
2.0 2.4
1.7 2.5 1.5
2.7 0.6 0.4
0.9 0.6 2.1
0.9 0.8 0.2 0.1
1.3 1.3 1.7
0.7 2.2 0.9 0.5 1.1 1.4 0.9 0.3 4.1 1.0
2.9 1.9 0.4 3.2 1.6 1.5 1.8
0.3 3.2 3.8 0.0 0.0 0.2 0.3
4.5 1.7 1.2 1.3
1.3 1.0 1.1 1.0 0.1
2.2
2.1
0.6
4.6
5.0
2.2
0.3
1.4
0.1
1.2